IN THE CLAIMS

1. (currently amended) A breathing assistance device for a patient, comprising:

- ~~A~~ a source of respiratory pressuri~~s~~zed gas~~,~~;
- ~~A~~ a breathing connection for allowing the patient to receive said pressurized gas~~,~~; and
- ~~A~~ at least one sensor for acquiring a parameter representative of the operation of the device~~,~~;

~~characterised in that~~ wherein said gas source is a ventilator, and said ventilator is integrated into a removable module which also comprises said at least one sensor for acquiring a parameter representative of the operation of the device.

2. (currently amended) The device ~~as claimed in the preceding~~ of claim 1, ~~characterised in that~~ wherein said removable module comprises a pressure sensor of respiratory gas and a flow sensor.

3. (currently amended) The device ~~as claimed in any one of the preceding~~ of claim~~s~~ 1 or claim 2, ~~characterised in that~~ wherein said removable ~~the~~ module is fixed on the device by a removable connection~~,~~ such that disassembly of the module is easy.

4. (currently amended) The device ~~as claimed in the preceding~~ of claim 3, wherein ~~characterised in that~~ said removable connection comprises a thread pitch.

5. (currently amended) The device ~~as claimed in~~ of Claim 3, wherein ~~characterised in that~~ said removable connection comprises means for clipping the removable module.

6. (currently amended) The device ~~as claimed in any one of the preceding~~ of claim~~s~~ 1, wherein ~~, characterised in that~~ said breathing connection is in the form of a mask.

7. (currently amended) The device ~~as claimed in the preceding~~ of claim 6, wherein ~~characterised in that~~ said mask is a mask not having means allowing leaks~~, such as vents~~.

8. (currently amended) The device ~~as claimed in any one of the preceding~~ of claim~~s~~ 1, wherein ~~characterised in that~~ the removable module is fixed directly on the breathing connection, such that the device does not comprise a conduit for conveying respiratory gas which would connect the breathing connection to a fixed offline console of the device.

9. (currently amended) The device ~~as claimed in the preceding~~ of claim 8, wherein ~~characterised in that the~~ an ensemble formed by the breathing connection and the removable module is linked to a control console of the device with a link.

10. (currently amended) The device ~~as claimed in the preceding~~ of claim 9, wherein ~~characterised in that~~ said link allows data to be transmitted between said ensemble and said console.

11. (currently amended) The device ~~as claimed in the preceding~~ of claim 10, wherein ~~characterised in that~~ said link is a wireless link.

12. (currently amended) The device ~~as claimed in C~~ of claim 10, wherein ~~characterised in that~~ said link helps to convey ~~the~~ energy required to operate ~~the~~ components of the removable module from said console to said ensemble.

13. (currently amended) The device ~~as claimed in the preceding~~ of claim 12, wherein ~~characterised in that~~ said link is a wired link.

14. (currently amended) The device ~~as claimed in any one of the preceding~~ of claims 1, wherein ~~characterised in that~~ the ventilator is an axial ventilator.

15. (currently amended) The device ~~as claimed in the preceding~~ of claim 14, wherein ~~characterised in that the~~ a rotor of the axial ventilator ~~axial~~ comprises a single stage.

16. (currently amended) The device ~~as claimed in any one of the two preceding~~ of claims 15, wherein ~~characterised in that~~ in the ventilator the respective directions of the input and output of respiratory gas are substantially parallel.

17. (currently amended) The device ~~as claimed in any one of the three preceding~~ of claims 14, wherein ~~characterised in that~~ the ventilator comprises~~:~~

- ~~a~~ a central input substantially aligned with ~~the~~ an axis of rotation of a ~~the~~ rotor of the ventilator,
- ~~an~~ an outlet allowing ~~the~~ flux generated by said rotor to be collected according to an oblique direction relative to said axis of rotation, and
- ~~means~~ means for rectifying said flux that is generated and collected, so that ~~this~~ the generated and collected flux flows out of the ventilator in a general direction substantially parallel to said axis of rotation of the rotor of the ventilator.

18. (currently amended) The device ~~as claimed in any one of the preceding~~ of claim~~s~~ 1, wherein ~~characterised in that~~ the device is ~~of type~~ a BPAP device.

19. (currently amended) The device ~~as claimed in any one~~ of ~~c~~claim~~s~~ ~~1 to 17~~, wherein ~~characterised in that~~ the device is ~~of type~~ a CPAP device.